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MEMORANDUM

TO : Chief, Materials Division DATE: 17 July 1952
FROM : Acting Chief, Solid Fuels Branch
SUBJECT: Mining and Mineral Dressing, Planning Manual, Volume III
Reviewed by: [REDACTED] Solid Fuels Branch, Materials
Division, ORR 25X1A

The chapter "Mining and Minerals Dressing" apparently was compiled entirely from descriptions of metal mines, metal mining processes, and metallic ore dressing plants. As a result the descriptive material on mining is applicable in only slight degree to the mining processes used for bedded deposits such as coal, gypsum, and other important mineral raw materials. The mining processes and mining practices for bedded deposits differ greatly from those described in the chapter. Similarly the descriptions in the chapter do not apply to the stone quarrying processes.

The wide variance in mining and mineral dressing processes of the various phases of the mining industry makes each phase susceptible to sabotage in varying aspects and degrees.

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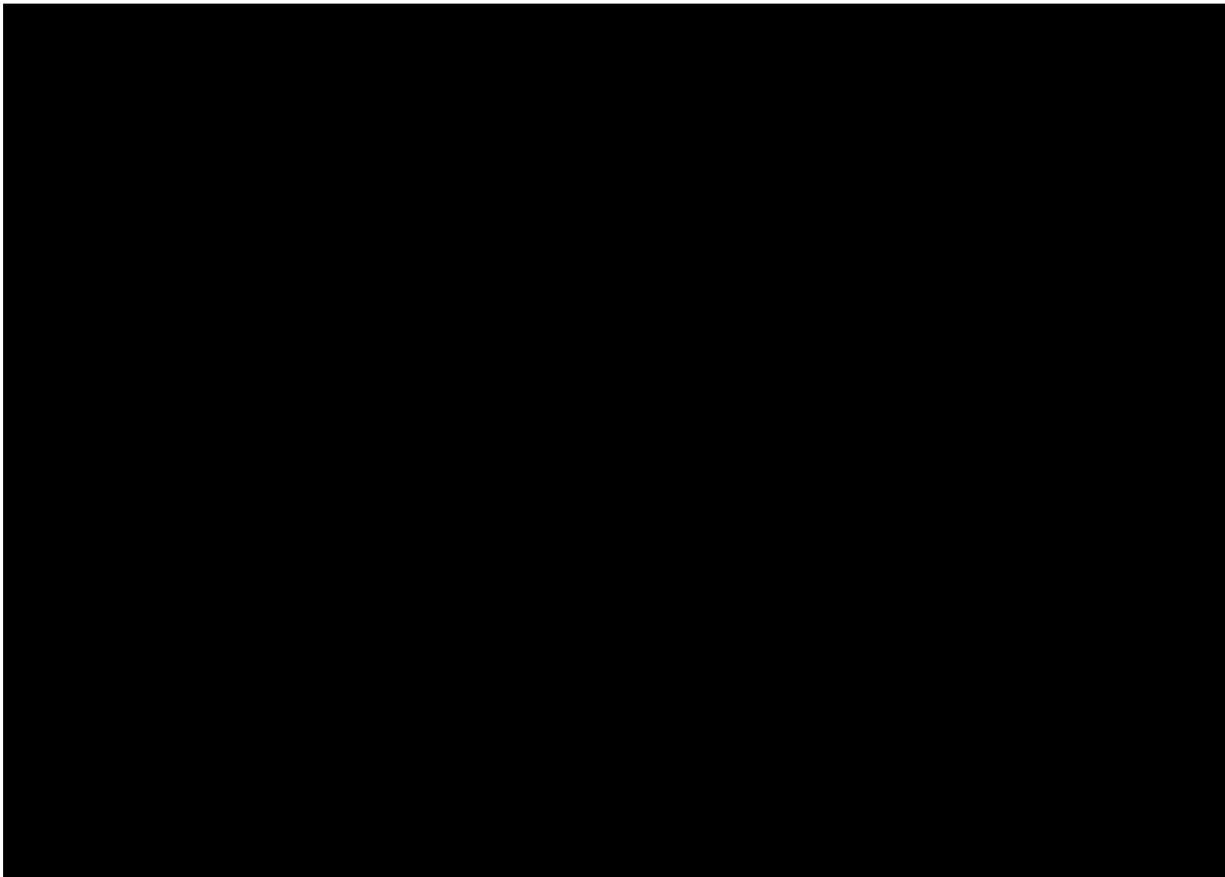
A principal result of this one-sided approach to a diversified industry is to overlook certain principal vulnerabilities to sabotage in the different segments of the mining industry, [REDACTED]

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As is true in this country, coal mining undoubtedly represents by far the largest segment of the mining industry in the USSR. Hence coal mines would present the largest number of individual mine targets for saboteurs. Because Russian industry has tended to be located in coal mining areas, coal mines probably would be more easily accessible to sabotage than metal mines in isolated areas. These factors point to the large field for sabotage which is neglected in the present chapter under review.

These apparent weaknesses in the chapter probably could be overcome by a rearrangement of the descriptive material and by adding other

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descriptive material relating to each of the various segments of the mining industry as instructions for saboteurs. Although not carefully thought out in detail, it is believed that the following suggested general arrangement and composition of the mining chapter would add materially to its value. First sufficient instructions should be given to determine the mineral raw material which is being worked at a mine. Following this would be a brief description of the mine processes and practices of each segment of the mining industry such as metal mining, non-metal mining, stone quarrying, and coal mining. At the end of each of these descriptions the principal targets for that segment should be described. For targets which are common to more than one segment such as vertical shafts, power supply, pumping and other equipment, surface buildings and others, these targets should be listed for each segment and the trainee referred to the description of these targets where it first appears in the chapter or in the manual.

It is realized that the comments in this review propose a marked expansion of the chapter. However, it is believed necessary because of the size of the coal mining industry and its many important differences from the metal mining industry which make it susceptible to sabotage in greatly different techniques from the other types of mining.

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